

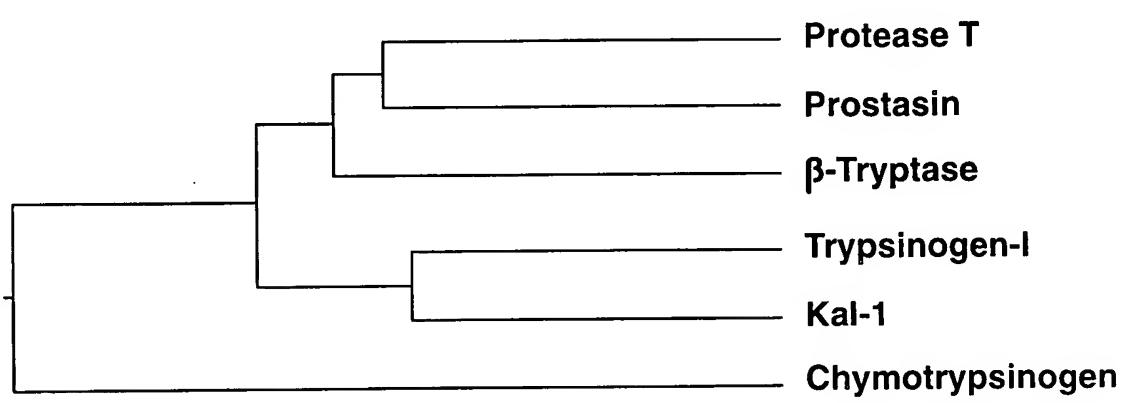
FIG. 1**NUCLEOTIDE AND AA SEQUENCE**

Nucleic acid sequence of Protease T (SEQ.ID.NO.:1)

40642654 020762
 GACCACGGCCCTGCGCCCCAGCCAGGCCTGAGGACATGAGGGGGCCGGCGGTGCCGC
 TCCTGCTGCTGCTGTGTTGGTCTCAGAGGCCAAGGCAGCAACAGCCTGTGGTCGCC
 CCAGGATGCTGAACCGAATGGTGGCGGGCAGGACACGCAGGAGGGCGAGTGGCCCTGGC
 AAGTCAGCATCCAGCGCAACGGAAGCCACTTCTGCGGGGGCAGCCTCATCGCGGAGCAGT
 GGGTCTGACGGCTGCGCACTGCTTCCGCAACACCTCTGAGACGTCCCTGTACCAAGGTCC
 TGCTGGGGCAAGGCAGCTAGTGAGCCGGACCACAGCTATGTATGCCCGGGTAGGC
 AGGTGGAGAGCAACCCCTGTACCAAGGGCACGGCCTCCAGCGCTGACGTGGCCCTGGTGG
 AGCTGGAGGCACCACTGCCCTCACCAATTACATCCCTCCCGTGTGCTGCCTGACCCCT
 CGGTGATCTTGAGACGGCATGAACGTGGTCAGTGGCTGGGCAGCCCCAGTGAGG
 AAGACCTCCTGCCGAACCGCGGATCCTGAGAAACTCGCTGTGCCATCATCGACACAC
 CCAAGTGCAACCTGCTACAGCAAAGACACCGAGTTGGCTACCAACCCAAAACCATCA
 AGAAATGACATGCTGTGCGCCGGCTCGAGGAGGGCAAGAAGGATGCCTGCAAGGGCGACT
 CGGGCGGCCCCCTGGTGTGCTCGTGGTCAGTCGTGGCTGCAGGCGGGGTGATCAGCT
 GGGGTGAGGGCTGTGCCCGCAGAACGGCCCAGGTGTCTACATCCGTGTACCGGCCACC
 ACAACTGGATCCATCGGATCATCCCCAAACTGCAGTTCCAGCCAGCGAGGTTGGCGGCC
 AGAAGTGAGACCCCCGGGGCAGGAGCCCTTGAGCAGAGCTCTGCACCCAGCCTGCCCG
 CCCACACCATCCTGCTGGCCTCCCAGCGCTGCTTGCACCTGTGAGCCCCACCAGACT
 CATTGTAAATAGCGCTCCTCCCTCCCTCTCAAATACCCTTATTATTTATGTTCTC
 CCAATAAAACCCAGCCTGTGCCAGCTG

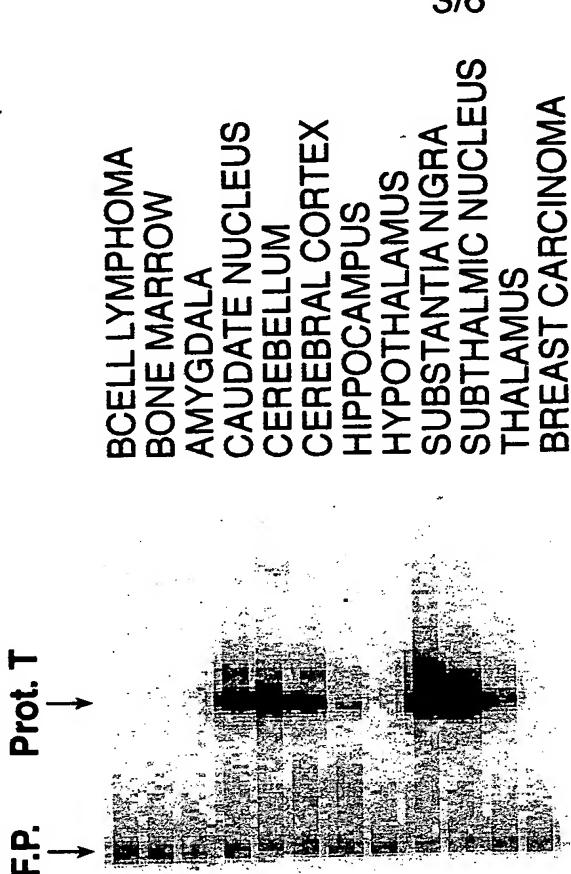
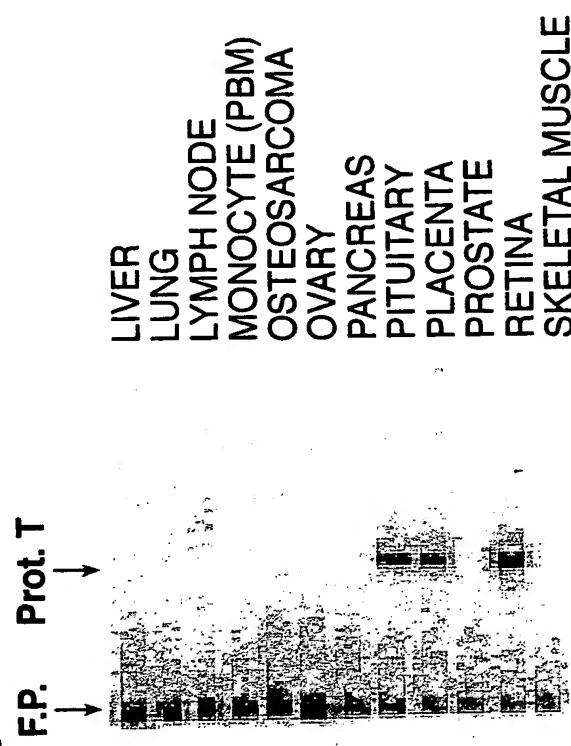
>Amino Acid Sequence of Protease T (SEQ.ID.NO.:7)

MRRPAAVPLLLLICFGSQRAKAATACGRPRMLNRMVGGQDTQEGERPWQVSIQRNGSHFC
 GGSLIAEQWLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAMYARVRQVESNPLYQGTA
 SSADVALVELEAPVPTNYILPVCLPDPSVIFETGMNCWVTGWGSPSEEDLLPEPRILOK
 LAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKKDACKGDSGGPLVCLVGQS
 WLQAGVISWGEGLCARQNRPGVYIRVTAAHNWIHRRIIPKLQFQPARLGGQK

FIG. 2

40047054 - 040202

FIG. 3



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SMALL INTESTINE
SPINAL CORD
SPLEEN
STOMACH
TESTIS
THYMUS
U937
U937+PMA
UTERUS
NEG CONTROL
NEG CONTROL
NEG CONTROL

COLON
ENDOTHELIAL
EPIDERMIS
FAT CELL
FETAL BRAIN
FIBROBLAST
HEART
JURKAT
JURKAT+PMA+PHA-M
KERATINOCTYE
KIDNEY
LEUKOCYTE

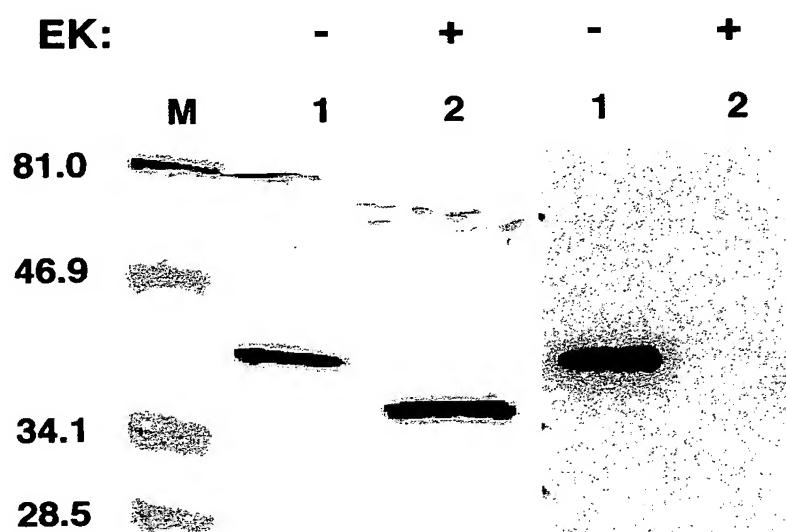
FIG. 4**FUSION PROTEIN**

Nucleic Acid sequence of PFEK-PROTT-HIS fusion protein
(SEQ.ID.NO.:8).

GAATTCAACCACCATGGACAGCAAAGGTCGTCGCAGAAATCCCGCCTGCTCCTGCTGCTG
GTGGTGTCAAATCTACTCTTGCCAGGGTGTGGTCTCCGACTACAAGGACGACGAC
GTGGACGCCGCTCTGCTGCCCTTGATGATGACAAGAATCGTGGGGCTAT
GCTCTAGAGGAGGGCGAGTGGCCCTGGCAAGTCAGCATCCAGCGAACGAAAGCCACTTC
TGCAGGGGGCAGCCTCATCGCGGAGCAGTGGGTCTGACGGCTGCGCACTGCTCCGCAAC
ACCTCTGAGACGTCCCTGTACCAGGTCTGCTGGGGCAAGGCAGCTAGTGCAGCCGGGA
CCACACGCTATGTATGCCCGGGTGAGGCAGGTGGAGAGACAACCCCTGTACCAAGGGCACG
GCCTCCAGCGCTGACGTGGCCCTGGTGAGCTGGAGGCACCAGTGCCTCACCAATTAC
ATCCTCCCCGTGTGCCTGCCTGACCCCTCGGTGATCTTGAGACGGCATGAACTGCTGG
GTCACTGGCTGGGGCAGCCCCAGTGAGGAAGACCTCCTGCCGAACCGCGGATCCTGCAG
AAACTCGCTGTGCCCATCATCGACACACCCAAGTGCAACCTGCTCTACAGCAAAGACACC
GAGTTGGCTACCAACCAAAACCATCAAGAATGACATGCTGTGCGCCGGCTTCGAGGAG
GGCAAGAAGGATGCCTGCAAGGGCGACTCGGGCGCCCTGGTGAGGGCTGTGCCGCCAGAACCGCCA
TCGTGGCTGCAGGCGGGGTGATCAGCTGGGTGAGGGCTGTGCCGCCAGAACCGCCA
GGTGTCTACATCCGTGTCACCGCCCCACCAACTGGATCCATCGGATCATCCCCAAACTG
CAGTTCCAGCCAGCGAGGTTGGCGGCCAGAAGTCTAGACATCACCACCATCACTAG
CGGCCGCTCCCTTAGTGAGGGTTAATGCTCGAGCAGACATGATAAGATAACATTGATG
AGTTTGGACAAACCACAACCTAGAATGCAGTGAAAAAAATGCTTATTGTGAAATTGTG
ATGCTATTGCTTATTGTAAACCATTATAAGCTGCAATAACAAAGTTGAC

Amino Acid sequence of PFEK-PROTT-HIS fusion protein
(SEQ.ID.NO.:9).

MDSKGSSQKSRLLLLLLVSNLCLCQGVVSDYKDDDDVDAALAAPFDDDKIVGGYALEE
GEWPWQVSIQRNGSHFCGGSLIAEQWLTAHCFRNTSETSLYQVLLGARQLVQPGPHAM
YARVRQVESNPLYQGTASSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWVTGW
GSPSEEDLLPEPRILQKLAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKKD
ACKGDGGPLVCLVGQSWLQAGVISWGEGCARQNRPGVYIRVTAAHHNWIHRIIPKLQFQP
ARLGGQKSRHHHHHH

FIG. 5

Protease: PFEK-Protease T-HIS

FIG. 6**Protease Activity of Protease T**

■ H-D-Pro-HHT-Arg-pNA
▨ H-D-Lys(CBO)-Pro-Arg-pNA
▨ H-DL-Val-Leu-Arg-pNA

